

# APPARATUS, SYSTEM, AND METHOD FOR SECURE MASS STORAGE BACKUP

## ABSTRACT OF THE DISCLOSURE

An apparatus for securely backing up data using a cryptographic module includes a mass storage device having a first accessible portion and a second encrypted portion. The mass storage device is initialized to only decrypt the encrypted portion on the system that first created the encrypted portion. The cryptographic module may be a Trusted Platform Module (TPM) based on specifications from the Trusted Computer Group. The mass storage device comprises a trusted platform interface module configured to communicate with the TPM. The system may include a motherboard having a TPM, and the mass storage device. The method in one embodiment comprises providing a computer readable mass storage device, initializing a password module, transmitting an encrypted password to the cryptographic module, authenticating the encrypted password, decrypting the encrypted password, transmitting the decrypted password to the computer readable medium, and decrypting the second encrypted portion using the decrypted password.